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C. Brant Cook 39,151  
Name of Attorney Registration No.  
C. Brant Cook  
Signature of Attorney

Case 7262

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of :  
**D. S. CONNOR ET AL.** : Confirmation No.: Unknown  
Serial No.: 09/786,078 : Group Art Unit: Not assigned  
Filed: February 28, 2001 : Examiner: Not assigned

For: IMPROVED PROCESSES FOR MAKING SURFACTANTS VIA  
ABSORPTIVE SEPARATION AND PRODUCTS THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, record is being made below in a Form PTO-1449 of documents which the Patent Office may wish to consider in connection with examination of the above-identified patent application. It is respectfully requested that the cited documents be carefully considered by the Examiner and made of record in this case. As provided in §1.97(g), no representation is made or intended that a thorough art search was made. As provided in 37 C.F.R. §1.97(h), this Information Disclosure Statement does not constitute an admission of any kind, and specifically is not an admission that the documents listed on attached form PTO-1449 are, or are considered to be, material to the patentability of the above-identified patent application, as defined in 37 C.F.R. §1.56(b).

1. ☐ 37 C.F.R. §1.97 (b)(1) - U.S. Direct (within 3-months of filing a regular application or converted provisional)

This information disclosure statement, submitted under 37 C.F.R. §1.97 (b)(1), is being filed within three months of the filing date of a national application. Therefore, no fee is believed to be due.

2. ☐ 37 C.F.R. §1.97 (b)(2) - Via PCT (within 3 mo. of Nat'l Stage Entry)

This information disclosure statement, submitted under 37 C.F.R. §1.97 (b)(2), is being filed within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application. Therefore, no fee is believed to be due.

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3. ☒ 37 C.F.R. §1.97 (b)(3) - (>3 mo. after filing direct or nat'l stage entry, but before 1<sup>st</sup> O.A.)

This information disclosure statement is being submitted under 37 C.F.R. §1.97 (b)(3). Applicants have not received an Office Action on the merits in the present application. Therefore, no fee is believed to be due. However, in the event that this paper is crossing in the mail with a first Office Action on the merits, authorization is hereby given to charge the required fee pursuant to 37 C.F.R. §1.97(c) and 37 C.F.R. §1.17(p) to Deposit Account No. 16-2480 in the name of The Procter & Gamble Company. A duplicate of this letter is enclosed to facilitate charging of the fee, if necessary.

**THE FOLLOWING IS ADDITIONAL INFORMATION PERTAINING TO (2) OR (3) MARKED WITH AN (X) ABOVE.**

(a) ☐ The Notification of Acceptance of this Application Under 35 U.S.C. §371 indicates that both a copy of the International Search Report and copies of the references cited therein are present in the national stage file. In accordance with MPEP §1893.03(g), it is respectfully requested that the Examiner note the consideration of these references in the first Office Action via the PTO-892 form.

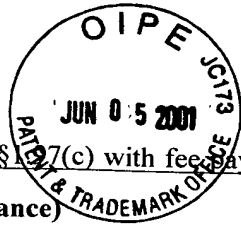
(b) ☐ The Notification of Acceptance of this Application Under 35 U.S.C. §371 indicates that a copy of the International Search Report is present in the national stage file. Copies of the references cited in that report are enclosed.

(c) ☐ The Notification of Acceptance of this Application Under 35 U.S.C. §371 does not indicate that a copy of the International Search Report and copies of the references cited are present in the national stage file. Copies of the International Search Report and references are attached.

4. ☐ 37 C.F.R. §1.97 (b)(4) - (before the mailing of a first Office Action after the filing of a request for continued examination under §1.114)

This information disclosure statement, submitted under 37 C.F.R. §1.97(b)(4), is being filed with the Request for Continued Examination (RCE) under 37 C.F.R. §1.114.

5. ☐ Information to be Considered with CPA Filing. This information disclosure statement is being filed with a Continued Prosecution Application (CPA) filed under 37 CFR 1.53(d).



6. ☐ 37 C.F.R. § 1.97(c) with fee payment - (use after 1<sup>st</sup> Office Action & before Final Office Action or Notice of Allowance)

This information disclosure statement is being submitted under 37 C.F.R. § 1.97(c). Applicant(s) have not received a final action under 37 C.F.R. § 1.113, a notice of allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution in the application (e.g., *Ex parte Quayle*) as of the date of this submission. Applicant(s) elect to pay the fee set forth in 37 C.F.R. § 1.17(p). Please charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account Number 16-2480 in the name of The Procter & Gamble Company. A duplicate copy of this letter is enclosed to facilitate the charging of the fee.

**ADDITIONAL ITEMS TO BE NOTED BY THE EXAMINER:**

☐ (1) Copies of the cited references were previously cited by or submitted to the USPTO in prior application Case No. \_\_\_\_, U.S. Patent Application Serial No. \_\_\_\_, filed \_\_\_\_. Applicants claim priority to said application under 35 U.S.C. § 120. Accordingly, copies of those documents are not provided with this Statement, pursuant to 37 C.F.R. § 1.98(d).

OR

☒ (2) Copies of the cited documents are enclosed.

OR

☐ (3) Copies of all said documents, except document No.'s \_\_\_\_, were submitted and considered in parent application U.S. Patent Application Serial No. \_\_\_\_, filed \_\_\_\_\_. Applicant(s) claim priority to said application under 35 U.S.C. § 120. Accordingly, copies of document No.'s \_\_\_\_ are not provided with this Statement, pursuant to 37 C.F.R. § 1.98(d). Copies of document No.'s \_\_\_\_ are enclosed. It is respectfully requested that the cited documents be carefully considered by the Examiner and made of record in this case.

☐ (4) Pursuant to 37 C.F.R. § 1.98(c), a concise explanation of the relevance of each cited reference that is not in the English language is provided.

☐ Additional information is attached.

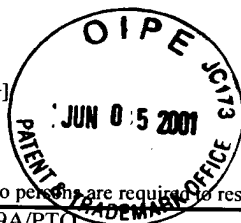
Respectfully submitted,

By C. Brant Cook  
C. Brant Cook  
Attorney for Applicants  
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June 1, 2001  
Miami Valley Laboratories  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1 of 3

### COMPLETE IF KNOWN

Application Number	09/786,078
Confirmation Number	Unknown
Filing Date	2/28/2001
First Named Inventor	D. S. Connor et al.
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	7262

### U. S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. <sup>1</sup>	U.S. PATENT DOCUMENT Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	01	2,477,382		Lewis	05/04/46	
	02	2,564,072		Lien et al.	08/14/51	
	03	2,985,589		Broughton et al.	05/23/61	
	04	3,196,174		Cohen	07/20/65	
	05	3,201,491		Stine et al.	08/17/65	
	06	3,238,249		Mirviss et al.	03/01/66	
	07	3,291,726		Broughton	12/13/66	
	08	3,312,745		Habeshaw et al.	04/04/67	
	09	3,341,614		Wirth et al.	09/12/67	
	10	3,355,484		Bloch et al.	11/28/67	
	11	3,442,964		Oldham	05/06/69	
	12	3,442,965		Oldham	05/06/69	
	13	3,455,815		Fickel	07/15/69	
	14	3,492,364		Jones et al.	01/27/70	
	15	3,674,885		Griesinger et al.	07/04/72	
	16	3,732,325		Pharis et al.	05/08/73	
	17	3,969,276		Rosback	07/13/76	
	18	4,006,197		Bieser	02/01/77	
	19	4,184,943		Anderson	01/22/80	
	20	4,301,316		Young	11/17/81	
	21	4,301,317		Young	11/17/81	
	22	4,447,664		Murchison et al.	05/08/84	
	23	4,533,651		Masters et al.	08/06/85	
	24	4,587,374		Peters	05/06/86	
	25	4,855,527		Page et al.	08/08/89	
	26	4,870,038		Page et al.	09/26/89	
	27	4,959,491		Threlkel	09/25/90	
	28	4,962,256		Le et al.	10/09/90	
	29	4,973,788		Pelrine	05/05/91	
	30	4,990,718		Hamilton, Jr. et al.	92/26/91	
	31	4,996,386		Blain et al.	06/25/91	

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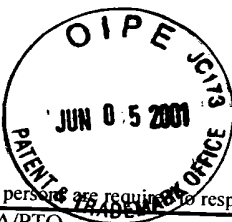
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 2 of 3

## COMPLETE IF KNOWN

Application Number	09/786,078
Confirmation Number	Unknown
Filing Date	2/28/2001
First Named Inventor	D. S. Connor et al.
Group Art Unit	Not assigned
Examiner Name	Not assigned
Attorney Docket Number	7262

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	32	5,026,933		Blain et al.	06/25/91	
	33	5,087,788		Wu	02/11/92	
	34	5,107,052		McCulloch et al.	04/21/92	
	35	5,171,923		Dickson et al.	12/15/92	
	36	5,196,624		Threlkel et al.	03/23/93	
	37	5,196,625		Threlkel et al.	03/23/93	
	38	5,210,060		Radlowski et al.	05/11/93	
	39	5,220,099		Schreiner et al.	06/15/93	
	40	5,276,231		Kocal et al.	01/04/94	
	41	5,510,564		Raghuram et al.	04/23/96	
	42	5,510,306		Murray	04/23/96	
	43	5,625,105		Lin et al.	04/29/97	
	44	5,780,694		Singleton	07/14/98	

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	45	*WO 88/07030	A2	Chevron	09/22/88		
	46	*WO 95/17961	A2	Shell Oil Co.	07/06/95		
	47	*WO 95/18084	A1	Shell Oil Co.	07/06/95		
	48	*WO 97/01521	A1	Sastech Ltd.	01/16/97	~ of ZA 95/0005405	
	49	*WO 97/39087	A1	Procter & Gamble	10/23/97		
	50	*WO 97/39088	A1	Procter & Gamble	10/23/97		
	51	*WO 97/39090	A1	Procter & Gamble	10/23/97		
	52	*WO 97/39091	A1	Procter & Gamble	10/23/97		
	53	*WO 97/38972	A1	Procter & Gamble	10/23/97		
	54	*WO 97/39089	A1	Procter & Gamble	10/23/97		
	55	*WO 98/23712	A2	Procter & Gamble	06/04/98		
	56	*WO 98/23566	A1	Shell Internationale	06/04/98		
	57	*WO 99/07656	A2	Procter & Gamble	02/18/99		
	58	*JP 49-46124	B4	Nippon Mining Co.	12/07/74		X

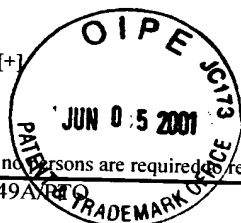
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SHEET 3 of 3

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	59	EP 0 364,012	B1	Shell Internationale	04/18/90	
	60	EP 0 466,558	A1	Institut Francais Du	01/15/92	Abstract
	61	EP 0 469,940	A1	Institut Francais Du	02/05/92	X
	62	EP 0 559,510	A1	Institut Francais Du	09/08/93	Abstract
	63	EP 0 559,510	B1	Institut Francais Du	01/24/96	
	64	EP 0 803,561	A2	Exxon Research	10/29/97	
	65	FR 2,697,246	A1	Institut Francais Du	04/29/94	Abstract
	66	SU 793,972		Bashkir Che	01/07/81	Abstract

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### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIALS*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country	T <sup>6</sup>
	67	* Chemical Abstracts 83:100693	
	68	* "Alkylarylsulfonates: History, Manufacture, Analysis and Environmental Properties", <b>Surfactant Science</b> , Vol. 56, Chpt. 2, pp 39-108, Marcel Dekker, NY (1996).	
	69	* "Raw Materials for Anionic Surfactant Synthesis", <b>Surfactant Science Series</b> , Vol. 56, Chpt. 1, pp 1-38, "Anionic Surfactants", Marcel Dekker, N.Y., Ed. W. Linfield (1996).	
	70	* "Petroleum-Based Raw Materials for Anionic Surfactants", <b>Surfactant Science Series</b> , Vol. 7, "Anionic Surfactants", Part 1, Chpt 2, pp 11-86, Marcel Dekker, N.Y., Ed. W. Linfield (1976).	
	71	* "Detergent Alkylate", <b>Encyclopedia of Chemical Processing and Design</b> , Marcel Dekker, NY, Eds. Mc.Ketta and Cunningham, pp 266-284 (1982).	
	72	* "Adsorption and Liquid Separation", <b>Kirk Othmer's Encyclopedia of Chemical Technology</b> , 4th. Ed., Vol. 1, pp 583-598.	
	73	* "Processing Guide" publication, UOP Corp., Des Plaines, IL.	
	74	* Broughton, D.B. et al., "Olefins by Dehydrogenation-Extraction", Technical Paper AM-69-38, <b>Hydrocarbon Processing</b> , Vol. 48, No. 6, p. 115-117 (June 1969); National Petroleum Refiners Association, 1969 Annual Meeting (Mar 23, 1969).	
	75	* Broughton, D.B. et al., "Two Processes Team Up To Make Linear Monoolefins", <b>Chemical Engineering</b> , p. 86 (Jan 26, 1970).	
	76	* "Alcohols, Higher Aliphatic", sub-heading "Synthetic Processes" describes an OXO reaction to form detergent alcohols, see especially "Modified Cobalt Catalyst, One-Step, Low Pressure Process", <b>Kirk Othmer's Encyclopedia of Chemical Technology</b> , 4th. Ed., Vol. 1, pp 893-913 (1991).	
	77	* "New Syntheses with Carbon Monoxide", Vol. 11, Chpt. 1, pp. 1-225, Ed. J. Falbe, Springer-Verlag, New York, 1980.	
	78	* "New Syntheses with Carbon Monoxide", Vol. 11, Chpt. 3, pp. 243-308, Ed. J. Falbe, Springer-Verlag, New York, 1980.	

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DATE CONSIDERED

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